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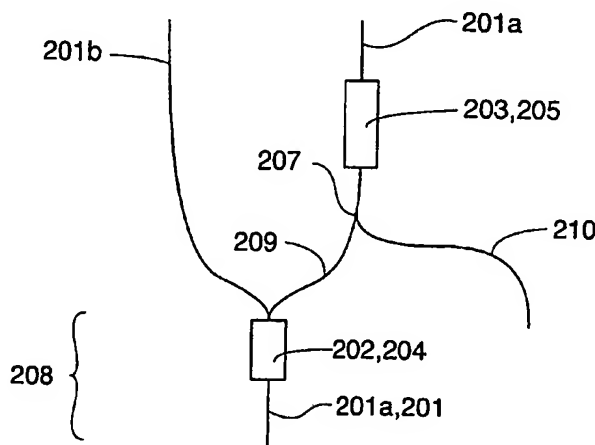
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(54) Title: FLOW PATHS COMPRISING ONE OR TWO POROUS BEDS



(57) Abstract: A microfluidic device that comprises a microchannel structure in which there are one, two or more flow paths (101; 202a, b; 302a, a', b) all of which comprises a porous bed I (104, 204, 304) that is common for all of the flow paths and exposes an immobilized reactant R that is capable of interacting with a solute S that passes through the bed. The characteristics are that at least one of the flow paths comprises/comprise a second porous bed II (105, 205, 305) that is placed upstream to porous bed I (104, 204, 304) and is dummy with respect to interaction with solute S but capable of interacting with a substance DS that is present in a liquid aliquot together with solute S and is capable of disturbing the result of the interaction between solute S and said immobilized reactant R. There is also disclosed a method utilizing the device and variant of the device in which the immobilized R is replaced with a generic affinity ligand L₁, and/or porous bed II exposes a generic ligand L_{II} that may be different from L₁.

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